

November 7, 2011

Received

DEO-SWRO

Mr. Fred M. Wyatt Department of Environmental Quality Southwest Regional Office 355 Deadmore Street Abingdon, VA 24212

Re:

Permit Reissuance, Hall Creek Wastewater Treatment Plant; VPDES Permit No. VA0087378; CHA Project Number: 23354

Dear Mr. Wyatt:

Enclosed is the original signed Virginia Pollutant Discharge Elimination System (VPDES) permit application for the Washington County Service Authority (WCSA) Hall Creek Wastewater Treatment Plant (WWTP). This submittal includes Form 2A, the VPDES Sewage Sludge Permit Application Form, the DEO Application Addendum, and the Public Notice Billing Information Form. These documents are submitted by CHA Consulting, Inc. on behalf of the WCSA.

The current permit includes effluent limits for the current facility design flow of 0.63 million gallons per day (MGD), and for the last three years the average flow has remained between 0.32 - 0.39 MGD. The WWTP is considering a request by a local industry to discharge 20,000 gpd of high-strength waste (equivalent of 0.2 MGD) of typical domestic wastewater. In addition, there is an agreement with Smyth-Washington Regional Industrial Facilities Authority (SWIFA) to allocate 0.1 MGD for potential industrial growth in the area. This would put the WWTP almost at its design capacity. As such, the Authority requests that the reissued permit include the current 0.63 MGD tier as well as a tier for a future 0.95 MGD design flow.

As indicated in my prior email correspondence, we would like to formally request a waiver for the EPA Form 2A part of the application:

1. Part B.6 Effluent Testing Data Requirements: The permit application indicates that a minimum of three scans must be performed on the parameters listed in Part B.6. For the parameters on this list that are included in the current permit with limitations, DMR data was submitted. The following parameters are not required as part of the current permit sampling, and are not routinely sampled and analyzed: TKN, nitrate plus nitrite, oil and grease, total phosphorus, and total dissolved solids. We request that the data submitted from the DMRs be considered representative of the effluent and sufficient for the application and that data for these five parameters not be required as part of the Form 2A application.

The laboratory results for the monitoring used to prepare this application were submitted to DEQ previously with the DMRs for the sampling month.

Please do not hesitate to contact me at (540) 552-5548, Robert C.H. Cornett, Washington County Service Authority General Manager, at (276) 628-7151, or Tommy Dotson, Washington County Service Authority Wastewater Manager at (276) 944-4391 should you have any questions or require any additional information.

Very truly yours,

R. Lawrence Hoffman

Vice President

RLH/egl Enclosure

cc:

Tommy Dotson, Wastewater Manager, Hall Creek Wastewater Treatment Plant, Washington

County Service Authority (w/enclosure)

Robbie Cornett, General Manager, Washington County Service Authority (w/enclosure)



Treatment Plant; VA0087378

Form Approved OMB Number 2040-0

FORM 2A **NPDES**

NPDES FORM 2A APPLICATION OVERVIEW

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APPLICATION OVERVIEW

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Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete

BASIC APPLICATION INFORMATION:

- Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastwater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions): or
 - b. Contributes a process wastewater that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designed as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER: Hall Creek Wastewater Treatment Plant; VA0087378

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

	ION INFORMATION FOR ALL.		
	ete questions A.1 through A.8 of th	is Basic Application Information packet.	
A.1 Facilty Information.			
Facilty Name	Hall Creek Wastewater Treatme	nt Plant	W
Mailing Address	P.O. Box 1447		
	Abingdon, VA 24212		
Contact Person	Tommy Dale Dotson		
Title	Wastewater Manager		
Telephone Number	276-944-4391 or 276-944-4381		
Facilty Address	32430 Lee Highway		
(not P.O. Box)	Glade Spring, VA 24340	***************************************	-
A.2. Applicant Information. If	the applicant is different from the a	above, provide the following:	
Applicant Name	Washington County Service Au		
Mailing Address	P.O. Box 1447		
	Abingdon, VA 24212		
Contact Person	Robert C.H. Cornett		
Title	General Manager		
Telephone number	276-628-7151		
Is the applicant the owner	or operator (or both) of the treatmen	nt works?	
Xowner	X operator		
Indicate whether correspor	dence regarding this permit should	I be directed to the facility or the applican	t.
facility	X applicant		
to the treatment works (incl		er of any existing environmental permits t	nat have been issued
NPDES <u>VA0087378</u>		PSD	
UIC		Other	
RCRA		Other	~
A			
 Collection System Information entity and, if known, provide in 	on. Provide information on municipalitie formation on the type of collection syste	es and areas served by the facility. Provide the em (combined vs. separate) and its ownership	e name and population of each (municipal, private, etc.).
Name	Population Served	Type of Collection System	Ownership
Meadowview-Emory	570	Sanitary only	<u> Municipal</u>
Exit 22 Industrial Park	300	Sanitary only	Municipal
Town of Glade Spring	2,100	Sanitary only	Municipal
Abingdon Regional Jail	500	Sanitary only	Municipal
Total population	on served3,470		

Form Approved 1/14/99 Plant; VA0087378 OMB Number 2040-0086 A.5. Indian Country Is the treatment works located in Indian Country? Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? Yes A.6 Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years Each year's data must be based on a 12-month time period with the 12th month of "this year" ocurring no more than three months prior to this application submittal. Design flow rate 0.63 Two Years Ago (1/09 - 12/09) This Year (1/11 - 9/11) Last Year (1/10 - 12/10) Annual average daily flow rate 0.39 0.36 mgd Maximum daily flow rate 0.68 0.75 0.75 mgd A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. Does the treatment works discharge effluent to the waters of the U.S.? Yes No If yes, list how many of each of the following types of discharge points the treatment works uses: Discharges of treated effluent ii. Discharges of untreated or partially treated effluent Combined sewer overflow points 0 iv. Constructed emergency overflows (prior to the headworks) 0 ٧. Other N/A Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes No If yes, provide the following for each surface impoundment: Annual average daily volume discharged to surface impoundment(s) mgd Is discharge continuous or intermittent? Does the treatment works land-apply treated wastewater? Yes No If yes, provide the following for each land application site: Location: Annual average daily volume applied to site: mgd Is land application continuous or intermittent? Does the treatment works discharge or transport treated or untreated wastewater to another treatment

FACILITY NAME AND PERMIT NUMBER: Hall Creek Wastewater Treatment

nt; VA0087378	NOWDER. nan Greek Wastewater Treatment		OMB Nu	ımber 204	
If yes, describe the mean works (e.g., tank truck, p	n(s) by which the wastewater from the treatment wipe).	orks is discharged or tran	sported to	the othe	r treatme
Transporter Name					
Mailing Address					
Contact Person					
Title					
Telephone Number					
For each treatment wo	orks that receives this discharge, provide the f	ollowing:			
Transporter Name					
Mailing Address					
Contact Person					
Title					
Telephone Number					
If known, provide the NP	DES permit number of the treatment works that re	ceives this discharge.			
Provide the average dail	y flow rate from the treatment works into the receiv	ving facility.			mgd
	s discharge or dispose of its wastewater in a manule (e.g., underground percolation, well injection)?	ner not inclued in	Yes	X	. No
If yes, provide the follow	ing <u>for each disposal method</u> :				

FACILITY NAME AND PERMIT NUMBER:	Hall Creek Wastewater Treatment
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Form Approved 1/14/99 OMB Number 2040-0086

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If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section: If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

De	escription of Outfall.					
a.	Outfall number	001	. •			
b.	Location		Hall Creek, Glade Spring	24340		****
		(City or town, if appl	licable)	(Zip Cod	ie)	
		Washington (County)		Virginia (State	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		` , ,		•	•	
		36°45'04" (Latitude)		81°47'5 (Longitu		
	51.				·	
c.	Distance from shore	e (if applicable)		ft.		
d.	Depth below surface	e (if applicable)		_ft.		
e.	Average daily flow r	ate	0.33	_ mgd	From 1	/07 - 9/11 DMR data
f.	Does this outfall have	ve either an intermitten	t or			
	periodic discharge?		Yes	X	No	(go to A.9.g)
	Number of times pe	r year discharge occur	s:			
	Average duration of	each discharge:				
	Average flow per dis		****		mgd	
	Months in which dis	charge occurs:	***************************************			
g.	Is outfall equipped v	vith a diffuser?	Yes	X_	No	
De	scription of Receiving	Waters	•			
a.	Name of receiving w	vater Hall C	rook			
b.	•	***************************************				
•	Name of watershed		Middle Fork Holston R			
			4-digit wastershed code (if k	nown):	***************************************	
) .		agement/River Basin (i				
	United States Geolo	gical Survey 8-digit hy	drological cataloging unit co	de (if knov	vn):	6010101
d.	Critical low flow of re	eceiving stream (if app	licable):			
	acute 1.68	cfs (1Q10)	chronic	2.47	cfs (7Q	10)
e.	Total hardness of re	ceiving stream at critic	cal low flow (if applicable):	216 (sa	mpled 5/2/	00) mg/l of CaCO ₃

		NAME AND PEF Plant; VA0087			eatment Plant; VA0087378					Form Approved 1/14/99 OMB Number 2040-0086							
.11.	Des	cription of Trea	atment														
	a.	What levels o	f treatment are	e provided?	Check all	that app	oly.										
		X Prima	ary	х	Seconda	ary											
		Adva	nced	-	- Other.	-	scribe:										
	b.	Indicate the fo	ollowing remov	val rates (as	applicable	e)			***************************************								
		Design BOD₅	-	•	• •	•				94		%					
		Design SS re			, romovar			,		94		•					
		Design P rem								******************************	***************************************	-%					
		•								N/A		. %					
		Design N rem	ovai							N/A		. %					
		Other								N/A		.%					
	C.	What type of	disinfection is	used for the	effluent fro	om this o	outfall? If di	sinfection varie	s by season,	please des	scribe.						
		Chlorination						·····				····					
		If disinfection	is by chlorinat	lion, is dechlo	orination u	used for t	this outfall?		X	Yes		No					
	d. Does the treatment plant have post aeration?							X	Yes		No						
12.	Efflu para discl colle CFR	uent Testing Information Info	de the indicat ot include info analysis cond other appropr	ted effluent ormation on ducted using riate QA/QC	testing re combined 40 CFR requirem	equired d sewer Part 136 nents for	by the perr r overflows 6 methods. r standard r	nitting author in this sectior In addition, the nethods for a	ity <u>for each o</u> n. All inform his data mus nalytes not a	outfall thro ation repo t comply v addressed	ough which orted must b with QA/QC by 40 CFR I	efflue e bas requi Part 1	<u>nt is</u> ed on data rements of 36. At a				
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FACILITY NAME AND PERMIT NUMBER: Hall Creek Wastewater

Treatment Plant; VA0087378

Form Approved 1/14/99 OMB Number 2040-0086

BA	(SI	C APPLICATION INFORMATION
		. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER REQUAL TO 0.1 MGD (100,000 gallons per day).
		ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification
B.1.	infil	ow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or tration. 000 gpd
		efly explain any steps underway or planned to minimize inflow and infiltration. cating and repairing I&I is an on-going process.
B.2.	pro	pographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility perty boundaries. This map must show the outline of the facility and the following information. (You may submit re than one map if one map does not show the entire area.) See attached Figure 1. The area surrounding the treatment plant, including all unit processes.
	c. d.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable. Each well where wastewater from the treatment plant is injected underground. N/A
	е.	Well, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed. N/A
3.3.	and disi	cess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including nfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram. See attached Figure 2.
3.4.	Are	eration/Maintenance Performed by Contractor(s). any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the consibility of a contractor?
		Yes X No
	add	es, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach itional pages if necessary).
	Nan	ing Address:
	iviaii	ing Address.
		phone Number: ponsibilities of Contractor:
3.5.	or u	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule neompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment is. If the treatment works has several different implementation schedules or is planning several improvements, submit separate consest to question B.5 for each. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies. Yes X No

FACILITY NAME AND PERMIT NUME	oco. u	all Craak	Mactou	unter Tre	atment D	lanti	1			F 1444	100
/A0087378	DEN. N	an Greer	(wastev	vater rre	aunent P	iant;				Form Approved 1/14/	
c. If the answer to B.5.b is "Yes," t	oriefly de	scribe. in	cludina n	ew maxir	mum daily	inflow ra	te (if apolic	able).		OMB Number 2040-0	JU86
In light of current flows and p planning an expansion to 0.95	ending i		-		•			•	ic capacity	y, WCSA is in the ear	ly stages of
 d. Provide dates imposed by any of improvements planned indepent accurately as possible. 	•			-		•					
, ,				Schedul	е		Actus	al Comp	lation		
Implementation Stage			М	M/DD/YY	ΥΥ			M/DD/YY			
- Begin construction		TBD		11				1 1			
- End construction		TBD									
- Begin discharge		TBD			***						
- Attain operational level		TBD							~~~		
e. Have appropriate permits/cleare Describe briefly:	Still in	early pla		ages; sc	te require hedule ai			d? 		Yes X	_No
by the permitting authority for each All information reported must be comply with QA/QC requirement CFR Part 136. At a minimum, e Outfall number: 001	based on the base base base base base base base bas	n data co CFR Part sting dat	ollected to 136 and a must b	hrough a other ap e based o	nalyses co propriate on at leas	onducted QA/QC re t three po	using 40 C	FR Part s for stan	136 metho dard meth	ds. In addition, these ods for analytes not a	data must ddressed by 40
POLLUTANT		MAXIMU	M DAILY	1	,	WEBAGE	DAILY DI	SCHADO	ìE		1.1
	54/2 CAC	DISCH	HARGE		,	WEJ CAGE	- DAILI DI	OUIMIC)L	ANALYTICAL	AU (AUD)
							=		Number of	METHOD	ML/MDL
CONVENITIONAL AND MONOON	Conc.	Units	Mass	Units	Conc.	Units	Mass:	Units	Samples		
CONVENTIONAL AND NONCON'	VENTIO	NAL CC	TIMPOU	NDS.				·			7
AMMONIA (as N)	18.3	mg/L	27.0	kg/D	0.38	mg/L	0.47	kg/D	217	SM 4500NH3,F	0.20 mg/L
CHLORINE (TOTAL RESIDUAL, TRC)	<0.1	mg/L	<0.3	kg/D	<0.1	mg/L	<0.1	kg/D	5,202	EPA 330.5	0.1 mg/L
DISSOLVED OXYGEN 1) Minimum value	5.6 ⁽¹⁾	mg/L	16.1	kg/D	8.0	mg/L	10.0	kg/D	1,734	EPA 360.1	1.0 mg/L
OTAL KJELDAHL NITROGEN TKN) Waiver Requested	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NTRATE PLUS NITRITE NTROGEN Waiver Requested	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OIL and GREASE Waiver Requested	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PHOSPHORUS (Total) Waiver Requested	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTAL DISSOLVED SOLIDS TDS) Waiver Requested	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
,		//~			1 4/5	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	111/7			1 1/17	1417

END OF PART B.

N/A

N/A

N/A

N/A

N/A

N/A

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

N/A

N/A

N/A

N/A

OTHER

N/A

FACILITY NAME AND PERMIT NUMBER: Hall Creek Wa	stewater Form Approved 1/14/99
Treatment Plant; VA0087378	OMB Number 2040-0086
BASIC APPLICATION INFORMAT	TION "
PART C. CERTIFICATION	
applicants must complete all applicable sections of Form 2A	r to instructions to determine who is an officer for the purposes of this certification. All as explained in the Application Overview. Indicate below which parts of Form 2A you tion statement, applicants confirm that they have reviewed Form 2A and have completed its submitted.
Indicate which parts of Form 2A you have com	pleted and are submitting:
X Basic Application Information packet	Supplemental Application Information packet
***************************************	Part D (Expanded Effluent Testing Data)
	Part E (Toxicity Testing: Biomonitoring Data)
	Part F (Industrial User Discharges and RCRA/CERCLA Wastes)
	Part G (Combined Sewer Systems)
ALL APPLICANTS MUST COMPLETE THE FOLLOW	/ING CERTIFICATION.
designed to assure that qualified personnel properly gather who manage the system or those persons directly responsit	chments were prepared under my direction or supervision in accordance with a system and evaluate the information submitted. Based on my inquiry of the person or persons ble for gathering the information, the information is, to the best of my knowledge and are significant penalties for submitting false information, inloluding the possibility of fine
	ett, General Manager
Signature ————————————————————————————————————	
•	MBER 2011
Date signed <u>BZ 7000B</u>	Water 1011
Upon request of the permitting authority, you must submit a treatment works or identify appropriate permitting requireme	ny other information necessary to assess wastewater treatment practices at the nts.

SEND COMPLETED FORMS TO:

FACILITY NAME: <u>Hall Creek Wastewater Treatment Plant</u> VPDES PERMIT NUMBER: VA0087378 VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All app	olicants must complete Section A (General Information).
2.	Will th	is facility generate sewage sludge? XYes No
	Will th	is facility derive a material from sewage sludge?Yes _X_No
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material d From Sewage Sludge).
3.	Will th	is facility apply sewage sludge to the land?Yes _X_No
	Will se	wage sludge from this facility be applied to the land? _Yes _X_No
	If you a	answered No to both questions above, skip Section C.
	If you a	answered Yes to either, answer the following three questions:
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	inswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	nswered Yes to a, b or c, skip Section C.
1.	Do you	own or operate a surface disposal site?Yes _X_No
	If Yes,	complete Section D (Surface Disposal).

SECTION A. GENERAL INFORMATION

All applicants must complete this section. 1. Facility Information. Facility name: Hall Creek Wastewater Treatment Plant Contact person: Tommy Dale Dotson b. Title: Wastewater Manager Phone: (276) 944-4391 Mailing address: c. Street or P.O. Box: P.O. Box 1447 City or Town: Abingdon State: Virginia Zip: 24210 d. Facility location: Street or Route #: 32430 Lee Highway County: Washington City or Town: Glade Spring State: Virginia Zip: 24340 Is this facility a Class I sludge management facility? __Yes _X_No e. f. Facility design flow rate: 0.63 mgd Total population served: ~3,000 g. h. Indicate the type of facility: X Publicly owned treatment works (POTW) ___ Privately owned treatment works ___ Federally owned treatment works ___ Blending or treatment operation ___ Surface disposal site __ Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: Applicant name: Washington County Service Authority a. b. Mailing address: Street or P.O. Box: P.O. Box 1447 City or Town: Abingdon State: <u>VA</u> Zip: 24210 Contact person: Robert C.H. Cornett c. Title: General Manager Phone: (276) 628-7151 d. Is the applicant the owner or operator (or both) of this facility? X operator Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) e. _____ facility X applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0087378 b. or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit:

List on this form or an attachment, all other federal, state or local permits or construction approvals received

N/A

4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? __Yes _X_No If yes, describe:

- Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility: See Figure 1.
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed. The sludge management facilities are located within the facility's property boundaries shown on Figure 1.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries. A line that delineates the area within 1/4 mile of the facility's proposed boundary is shown on Figure 1. All residences shown within this line are assumed to have domestic wells or springs as their water sources. An additional line indicating the 1-mile radius of the facility is also shown on Figure 1. Hall Creek and its tributaries, Middle Fork of the Holston River and its tributaries, and intermittent drainageways are waterbodies located within this 1-mile radius of the facility.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. See Figure 2 and Attachment 1.
- 7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? X Yes No If yes, provide the following for each contractor (attach additional pages if necessary).

Name: BFI Carter's Valley Landfill Mailing address: P.O. Box 234

Street or P.O. Box:

City or Town: Church Hill State: TN Zip: 37642

Phone: 423-357-6777

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

SNL # 37-104-0185

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. A Certificate of Analysis for TCLP results for metals, VOCs, and SVOCs is located in Attachment 1.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:

FACILITY NAME: Hall Creek Wastewater Treatment Plant

VPDES PERMIT NUMBER: VA0087378

<u>X</u> _S	Section A (General Information)
<u>X</u> S	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
S	ection C (Land Application of Bulk Sewage Sludge)
	ection D (Surface Disposal)
I certif	fy under penalty of law that this document and all attachments were prepared under my direction or supervision
in acco	ordance with a system designed to assure that qualified personnel properly gather and evaluate the information
submit	ted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible
for gat	hering the information, the information is, to the best of my knowledge and belief, true, accurate and complete.
I am av	ware that there are significant penalties for submitting false information, including the possibility of fine and
imprise	onment for knowing violations.
Name	and official title Robert C.H. Cornett, General Manager
Signatu	ure Nowloo Date Signed OZ NOVEMBOZ ZON
Teleph	one number (276) 628-7151
-	

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: Hall Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0087378

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		nt Generated On Site. dry metric tons per 365-day period generated at your facility:62.4 dry metric tons
2.	dispos	ant Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive se sludge from more than one facility, attach additional pages as necessary. Facility name: Washington County School System Contact Person: Cris Moore Title: Maintenance Superintendent Phone 276-628-1800
	c.	Mailing address: Street or P.O. Box: 812 Thompson Drive City or Town: Abingdon State: VA Zip: 24210
	d.	Facility Address: See Attachment 1. (not P.O. Box)
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons. See Attachment 1.
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics: There are six package plants in the county school system. Each are extended air package plants except for the Holston High facility which is a trickling filter plant. Each extended air plant has aerobic digesters and haul sludge to Hall Creek WWTP to be dewatered.
3.	Treatu	nent Provided at Your Facility.
٥.	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?
	b.	Class A _X_Class BNeither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Aerobic digestion, de-watering by gravity, and mechanical means.
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? X Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) X Option 4 (Specific oxygen uptake rate for aerobically digested sludge) if option 1 is not satisfied Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: See Attachment 1. Aerobic digestion to reduce vector attraction. Volatile reduction by 38%. De-watering by gravity or mechanical means further reduce volatiles 3-5%.
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: None
4.	of Vec	ation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One tor Attraction Reduction Options 1-8 (EQ Sludge). N/A
	(If sewa	ge sludge from your facility does not meet all of these criteria, skip Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesNo

5.		or Give-Away in a Bag or Other Container for Application to the Land. N/A			
	(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this				
		on if sewage sludge is covered in Question 4.)			
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility			
		for sale or give-away for application to the land: dry metric tons			
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or			
	.	given away in a bag or other container for application to the land.			
6.	Shipment Off Site for Treatment or Blending. N/A				
	(Com	plete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question			
	does n	ot apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is			
	-	ed in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)			
	a.	Receiving facility name:			
	b.	Facility contact:			
		Title:			
		Phone: ()			
	c.	Mailing address:			
		Street or P.O. Box:			
		City or Town:State: Zip:			
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry			
		metric tons			
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of			
	٠.	all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal			
		practices:			
		Permit Number: Type of Permit:			
		No. of the Contract of the Con			
	c	The state of the s			
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your			
		facility?YesNo			
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?			
		Class AClass BNeither or unknown			
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to			
		reduce pathogens in sewage sludge:			
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the			
	۶.	sewage sludge?YesNo			
		· · · · · · · · · · · · · · · · · · ·			
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?			
		Option 1 (Minimum 38 percent reduction in volatile solids)			
		Option 2 (Anaerobic process, with bench-scale demonstration)			
		Option 3 (Aerobic process, with bench-scale demonstration)			
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)			
		Option 5 (Aerobic processes plus raised temperature)			
		Option 6 (Raise pH to 12 and retain at 11.5)			
		Option 7 (75 percent solids with no unstabilized solids)			
		Option 8 (90 percent solids with unstabilized solids)			
		None unknown			
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to			
		reduce vector attraction properties of sewage sludge:			
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?			
		YesNo			
		If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:			
	i.	If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility			
		,,,,,,,, .			

to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

FAC	ILITY N	IAME: Hall Creek Wastewater Treatment Plant VPDES PERMIT NUMBER: VA0087378		
	j.	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-		
		away for application to the land?YesNo		
		If yes, provide a copy of all labels or notices that accompany the product being sold or given away.		
	k.	Will the sewage sludge be transported to the receiving faciliaty in a truck-mounted watertight tank normally		
		used for such purposes? Yes No. If no, provide description and specification on the vehicle used to		
		transport the sewage sludge to the receiving facility.		
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the		
		week and the times of the day sewage sludge will be transported.		
7.	Lond	Application of Dulk Courses Cludes N/A		
7.		Application of Bulk Sewage Sludge. N/A		
	(Com	plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or		
		replete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)		
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons		
	b.	Do you identify all land application sites in Section C of this application?YesNo		
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in		
		accordance with the instructions).		
	c.	Are any land application sites located in States other than Virginia?YesNo		
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the		
		States where the land application sites are located. Provide a copy of the notification.		
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to		
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples		
		may be obtained in Appendix IV).		
8.	Surface Disposal. N/A			
8.	(Comp	lete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)		
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal		
		sites: dry metric tons		
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?		
		YesNo		
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage		
		sludge to more than one surface disposal site, attach additional pages as necessary.		
	c.	Site name or number:		
	d.	Contact person:		
		Title:		
		Phone: ()		
		Contact is:Site OwnerSite operator		
	e.	Mailing address.		
		Street or P.O. Box:		
		City or Town: State: Zip:		
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal		
		site: dry metric tons		
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of		
	_	all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface		
		disposal site:		
		Permit Number: Type of Permit:		

Incineration. N/A (Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.) Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: _____ dry metric tons b. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? Yes ___No If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary. Incinerator name or number: c. d. Contact person: Title: Phone: () Contact is: __Incinerator Owner Incinerator Operator Mailing address. e. Street or P.O. Box: City or Town: _____ State:_____ Zip: f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: dry metric tons List on this form or an attachment the numbers of all other federal, state or local permits that regulate the g. firing of sewage sludge at this incinerator: Permit Number: Type of Permit: 10. Disposal in a Municipal Solid Waste Landfill. (Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.) a. Landfill name: BFI Carter Valley Landfill b. Contact person: Bruce A. Howard Title: Account Executive Phone: (423) 357-6677 Contact is: X Landfill Owner X Landfill Operator Mailing address. c. Street or P.O. Box: P.O. Box 234 City or Town: Church Hill State: TN Zip: 37642 d. Landfill location. Street or Route #: 2825 Carter's Valley Road County: Hawkins City or Town: Church Hill State: TN Zip: 37642 Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: e. 62.4 dry metric tons f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill: Permit Number: Type of Permit: SNL# 37-104-0185 Disposal of Special Waste g. Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? X_Yes __No Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid h. Waste Management Regulation, 9 VAC 20-80-10 et seq.? X Yes No i. Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered? X Yes No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported. See Figure 3 and Attachment 1.

VPDES Permit Application Addendum

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.			
2. Is this facility located within city or town boundaries? Yes No X			
3. Provide the tax map parcel number for the land where the discharge is located. 069-A-36A			
4. For the facility to be covered by this permit, how many acres will be disturbed during the next			
five years due to new construction activities? None for 0.63 MGD facility; 1-2 acres upon expansion to 0.95 MGI			
5. What is the design average effluent flow of this facility? 0.63 MGD			
For industrial facilities, provide the max. 30-day average production level, include units:			
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes X No If "Yes", please identify the other flow tiers (in MGD) or production levels: 0.95 MGD; receipt of high			
strength industrial waste expected in 2012; this will consume significant organic capacity. Additional industrial flow anticipated thereafter.			
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?			
6. Nature of operations generating wastewater:			
Treatment of Domestic Wastewater; industrial wastewater addition expected in 2012			
100% of flow from domestic connections/sources (current)			
Number of private residences to be served by the treatment works:			
% of flow from non-domestic connections/sources (~5% in 2012)			
7. Mode of discharge: X Continuous			
3. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:			
X Permanent stream, never dry			
Intermittent stream, usually flowing, sometimes dry			
Ephemeral stream, wet-weather flow, often dry			
Effluent-dependent stream, usually or always dry without effluent flow			
Lake or pond at or below the discharge point			
Other:			
9. Approval Date(s):			
O & M Manual 8/1/2007 Sludge/Solids Management Plan 1/28/1999			
Have there been any changes in your operations or procedures since the above approval dates? Yes No X			

Washington County Service Authority Hall Creek Wastewater Treatment Plant VPDES VA0087378 Attachment 1.

Section A.6 Description of the Preliminary Treatment Process:

During sludge handling, waste sludge is pumped via the waste sludge pump from the clarifier to one of the four aerobic digesters. After the digestion process, the sludge is pumped to the dewatering building which houses a one-meter belt press capable of de-watering biosolids to 18-22% cake.

After the aerobic process and amount of detention time required for reduction of solids, supernatant is decanted from the digester and sludge is pumped to the de-watering building and to the belt press to de-water the biosolids to sludge cake. The sludge cake is stored in a dump truck or on the drying beds until which time it is taken to the landfill for disposal at Carter's Valley Landfill in Tennessee. At present, only screenings and grit mixed with some biosolids are taken to the landfill as well.

Section B.2. Generation of Sewage Sludge received from off-site facilities for previous 365 days.

Washington County School System Contact Person: Cris Moore Maintenance Superintendent 540-628-1800 812 Thompson Drive Abingdon, VA 21210

Facility address and amounts from each facility in year 2010:

Location	Gallons Liquid Sludge Hauled	Metric tons hauled
Greendale Elementary School 13092 McGuffie Road Abingdon, VA 24210 VPDES # VA0063673	0	0
Valley Institute School 4350 Gate City Highway Bristol, VA 24202 VPDES # VA0026786	0	0
Watauga Elementary School 23181 Watauga Road Abingdon, VA 24211 VPDES # VA0065315	0	0
Meadowview Elementary School 14050 Glenbrook Avenue Meadowview, VA 24361 VPDES # VA0030589	0	0
Holston High School 21308 Monroe Road Damascus, VA 24326 VPDES # VA0026778	0	0
Rhea Valley Elementary School 31305 Rhea Valley Road Meadowview, VA 24361 VPDES # VA0065323	0	0



/27/2011 9:14:22 AM User: Hodge, Chris LastSavedBy. 3771 8000 Scale in feet HALL CREEK
WASTEWATER
TREATMENT OUTFALL BOUNDARY ,BVA\23354\CADD\FIGURES\FIGURE 1.DWG Saved: 10/27/2011 9:13:06 AM Plotte STORAGE | FACILITY BOUNDARY 14 MILE OFFSET 1 MILE OFFSET

File: V:\PROJE

WASHINGTON COUNTY, VIRGINIA HALL CREEK WASTEWATER TREATMENT PLANT SITE LOCATION MAP

> THE PROPERTY BOUNDARY ARE ASSUMED TO UTILIZE DOMESTIC

WELLS OR SPRINGS AS THEIR

SOURCE OF WATER.

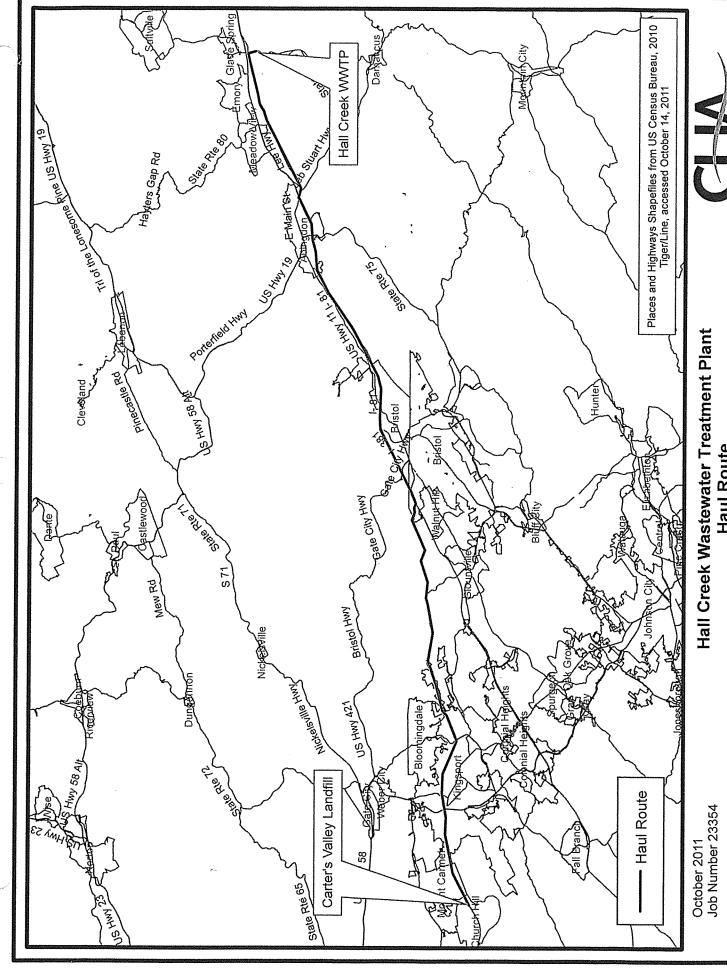
RESIDENCES WITHIN 14-MILE OF

ON-SITE WELL

PROJECT NO.

DATE: OCT 2011

FIGURE



Haul Route



